

Notice of Allowability

Application No.

10/674,748

Examiner

KHAI TRAN

Applicant(s)

LAASER, PETER

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 5/23/2007.
2. ☒ The allowed claim(s) is/are 2-12 and 15-45.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

REASONS FOR ALLOWANCE

1. The amendment filed 5/23/2007 has been entered. Claims 1, 13-14 have been cancelled. Claims 2-12, 15-45 are pending in this Office action.

Allowable Subject Matter

2. Claims 2-12, and 15-45 are allowed.

3. The following is an examiner's statement of reasons for allowance: none of the prior art discloses or suggests that method and a crest factor reduction circuit for reducing a crest factor of a multi-tone-data signal which is transmitted in a predetermined transmission frequency band comprising: (a) storing in a first memory at least one data symbol of a data symbol sequence, each data symbol comprising a predetermined number of data samples $s(i)$ with index i , $0 \leq i \leq (N-1)$, (b) comparing the amplitude of each data sample of said data symbol with a first threshold value to detect a data sample peak; (c) performing the following steps when a data sample peak is detected; (i) reading a multi-tone-correction signal comprising a corresponding number of correction data samples from a second memory; (ii) shifting cyclically the read correction data samples of the multi-tone correction signal so that the maximum of said correction data samples coincides with the detected data sample peak; (iii) scaling of the shifted correction data samples of the multi-tone-correction signal according to a predetermined spectrum mask; (iv) accumulating the scaled correction data samples of the multi-tone-correction signal in a third memory; (d) subtracting the accumulated correction data samples of the multi-tone-correction signal from the data samples of said data symbol; (b) a IFFT unit for performing an inverse fast fourier transformation to

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generate a multi-tone-data signal comprising a sequence of data symbols, each having a predetermined number (N) of data samples $s(i)$ with index i , $0 \leq i \leq (N-1)$; (c) a crest factor reduction circuit for reducing a crest factor of the multi-tone-data signal which is transmitted in a predetermined transmission frequency band, wherein the crest factor reduction circuit comprises means for subtracting a multi-tone-correction signal from said multi-tone-data signal, wherein the multi-tone-correction signal comprises a plurality of tone signals having frequencies outside said transmission frequency band; and (d) a transmission signal path for forming an analog transmission signal from the corrected multi-tone-data signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



KHAI TRAN
Primary Examiner
Art Unit 2611

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June 8, 2007